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Integrated System for Information Services

The new logo for the National Agricultural Library's ISIS system.

NAL Introduces ISIS to the Public

by Roberta Y. Rand
ISIS Coordinator

The National Agricultural Library's **Integrated System for Information Services — ISIS** — is now available for use by the public. In January 1990, after years of planning and commitment, the Library formally introduced the automated system to public users. How NAL got to this point and how certain decisions were made have been dynamic and absorbing processes.

The First Step

In the Autumn of 1982 NAL contracted with the MITRE Corporation, a library consulting firm, to review the Library's AGRICOLA system and to design a replacement that would correct its deficiencies. This project determined that simply redesigning the AGRICOLA system was not the viable solution. A review of the automated support for all areas of the library was needed.

At that time, automated support for NAL was provided through a mix of applications and services on systems at OCLC (Online Computer Library Center, Inc.), a library information network, USDA's Washington Computer Center (WCC), and NAL (its own minicomputer).

OCLC was used for acquisitions, cataloging, serials check-in and some inter-library loans, while NAL's Four Phase minicomputer was used to create indexing records. WCC produced an AGRICOLA tape as well as several printed catalog products such as catalog and shelf list cards. Outside of this there was little or no support for other library operations such as collection management and control.

A principal drawback of that environment was lack of reliable information on what the Library owned and where items were at any given time. Other limitations centered around inadequate means for analyzing data in the

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system. For instance, serials check-in data could not be manipulated to prepare a report on vendor performance. Also, the lack of integration among the different components led to redundant data entry and error correction procedures.

The MITRE review concluded that "NAL needed a major restructuring of the support systems for basic library operations. An established library system acquired from a commercial or non-profit organization should serve as the foundation for this new support. This should be supplemented by use of OCLC for certain functions and by some software developed specifically for the NAL."

The Contract

The search for the system which became ISIS was from the beginning a library-wide effort. Library staff listed priorities for an information system, visited several libraries to observe functioning systems, listened attentively during vendor demonstrations and decided collectively the merits of competing systems. NAL subsequently awarded a contract to



photo: J. Swab

The ISIS Implementation Team and the ISIS Production Team [some members are on both teams, and all are in the Library Automation Branch (LAB) except as noted (L-R)]: William Feidt, Head, LAB; Margo Kincaid; Charles Schoppet, Lockheed Systems; Roberta Rand, ISIS Coordinator; John Stetka; Maria Stransky, Indexing Branch, Technical Services; Patricia Krug, Reference Branch, Public Services; and Regina Doorlay.

the Virginia Tech Library System. VTLS had proven with a live demonstration and effective software that its system could provide an integrated, automated library system for NAL. There were some features that were of particular importance to NAL during the evaluation study: adherence to national library standards; flexibility of the software which would allow for greater control and retrieval of data; full authority control; ability to search data by choosing any word on the record and then qualifying it to narrow the search results; sophisticated networking options; and ability of the vendor to work with library staff in developing an Indexing Subsystem, a program to produce AGRICOLA Sale Tapes, and other custom programs as necessary.

The Implementation Process

The Library-wide team pattern used for selecting VTLS became the pattern for the Library-wide implementation effort. An Implementation Team comprised of members from each Division of the Library—Technical Services, Public Services, and Information Systems—is the backbone of the project. Since the beginning of the implementation process, the Team has met twice a week, and members report back to the Branches.

A Users Advisory Group was also established representing each Branch of the library. Meetings are held once a month to discuss current updates. A major purpose of this group is to assist in formal testing of new software when it is added to the system. It has proven to be a valuable asset to the project.

The Computer Hardware

The installation of an HP3000/70 minicomputer and supporting equipment in May 1987, put NAL on the first rung of the implementation ladder. The hardware configuration has changed many times during the last three years. NAL

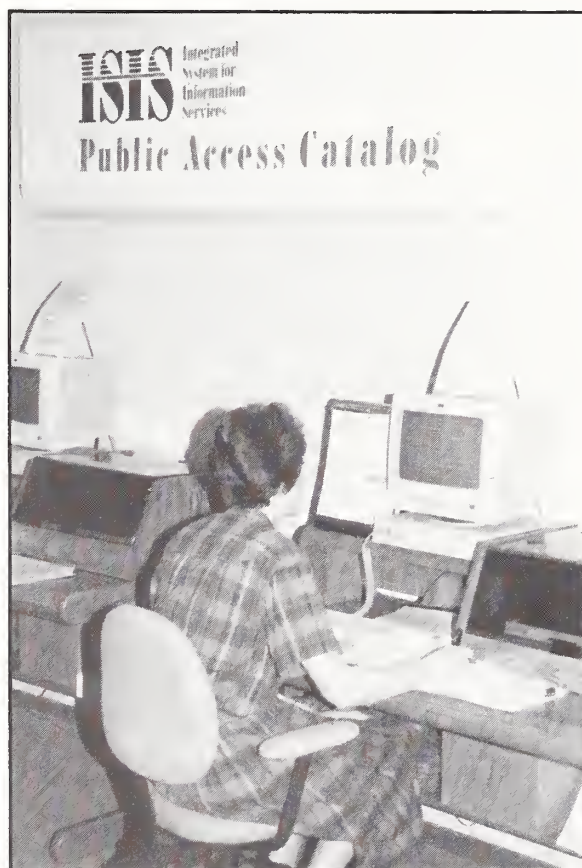


photo: J. Swab

ISIS work stations where Library users may look up citations in the computerized Public Access Catalog are located throughout the public areas of the Library.



photo: J. Swab

ISIS Online Users Advisory Group, representing all Branches of the Library: (L-R standing) Janice Kemp, Special Services; Susan Chapman, Lending; Kathleen Dougherty, Cataloging; Patricia Krug, Reference; Veronica Perkins, Acquisitions/Serials; (L-R seated) Shirley King Evans, Information Centers; Roberta Rand, ISIS Coordinator, Library Automation Branch; Maria Stransky, Indexing; and Ruth Wertman, Acquisitions/Serials. Paul Hosman, Special Services Branch, is also a member of this group; membership has changed from time to time since its founding and the previous ALIN photo in May 1988.

added disk drives with the decision to include keywording, and adds more periodically to accommodate the growing database. The monthly increase averages 3000 new bibliographic records, and NAL expects the database will eventually include more than 2.5 million records including those for journal articles.

The Software

The NAL Staff became familiar with the ISIS system utilizing a test database of approximately 10,000 NAL bibliographic records. Staff conducted formal tests of the custom software and parameters. Staff created a "Reporting Form," and as each problem and bug was discovered, it was documented and sent to VTLS for correction. As VTLS made corrections and modifications to the software, it sent "patch tapes" to the Library and loaded them into ISIS.

The Database

A major consideration in obtaining and implementing an integrated system for NAL was the database. NAL cataloging data, or the Cataloging Master File (CMF), was stored at WCC. The source of the data was OCLC, early NAL records, and contractor produced records. The dates of the data ranged from 1966 through 1987. Cataloging rules changed in 1979 when the library community adopted the new *Anglo-American Cataloguing Rules (AACR2)*. Since online systems dramatically increase the need for name, uniform title, series, and subject authority control, NAL decided to send the database to Blackwell North America (BNA) to standardize headings and avoid conflicting, misleading or outdated headings in ISIS. NAL also requested BNA to create an LC Name, Subject, and Title Authority File from the data. The initial load included cataloging and

serial records from the NAL collection and an LC Name and Subject Authority File. When VTLS completes software for a Title Authority File, series titles will be added.

In Summer 1989 NAL loaded Food and Nutrition Information Center (FNIC) records into a separate database, and decided that those records would be merged into the production database after discussions regarding the use of subject terms were completed.

In 1988, NAL wrote a proposal outlining an evaluation study with the Agricultural Research Service Libraries (ARS) to test the appropriateness of electronic networking and to provide better access to agricultural literature to ARS library patrons through ISIS. Funding was granted, and, after receiving ISIS orientation and training, the ARS Librarians agreed to a plan to have their libraries' holdings added to ISIS.

The first phase of the plan is a pilot project with Northern Regional Research Center (NRRC), Peoria, IL. NAL randomly selected one thousand OCLC bibliographic records from an NRRC archival

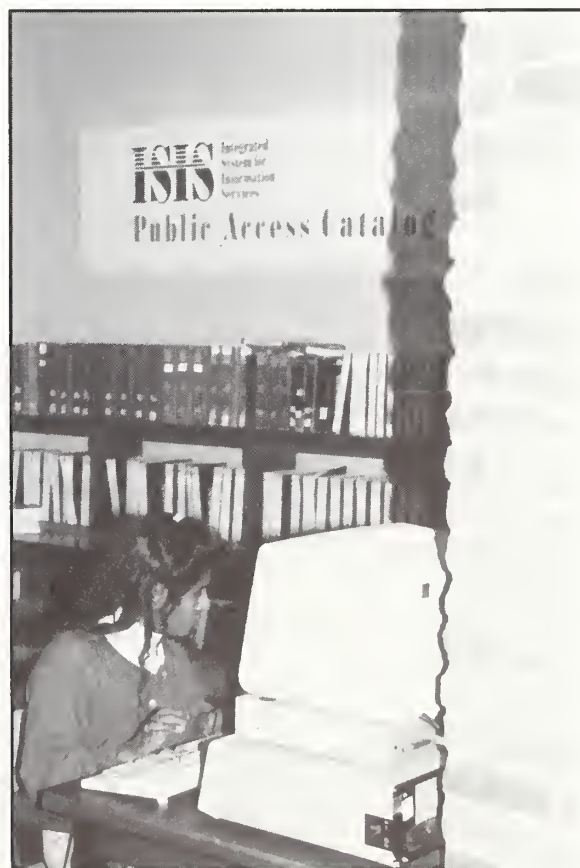


photo: J. Swab

Some ISIS work stations for use of the Public Access Catalog such as this one are located in areas near reference works, computer printouts, and other materials providing access to information and the Library's collections.



photo: D. Starr

Roberta Rand, ISIS Coordinator, and Karl Schneider, Reference Branch, setting up and testing one of the workstations for the Public Access Catalog.

tape and loaded them into ISIS. NRRC and NAL Staff added holdings data to these records to provide NRRC access to its own data. Prior to loading the remainder of ARS records, NAL will conduct a survey to determine the benefits derived from the holdings data and the effectiveness of the format of the display in ISIS. After NAL and the ARS Libraries have analyzed the results of the survey and made any necessary adjustments, they will load the remainder of NRRC's holdings and those of the Southern Regional Research Center, Western Regional Research Center, Eastern Regional Research Center, and Russell Research Center. This will allow ISIS users to share all of the collections.

NAL continues to add data to ISIS from the monthly AGRICOLA tape. NAL is also developing a procedure to allow for daily downloading from OCLC. As retrospective cataloging projects are completed, NAL will add the records to the database as an ongoing procedure.

Functionality

Serials Control and Check-In

In June 1988, NAL loaded a test serials database into ISIS and began training staff to use the new system. Throughout the training period, serials staff continued to receive their normal number of current issues on the OCLC system. In October 1988, NAL tape-loaded its machine-readable OCLC serial holdings into ISIS, mapping them to bibliographic records. This became the ISIS serials database. The serials staff now uses the system to update holdings for current issues received. The learning period continues as the staff reduces the backlog and resolves various problems with records.

Online Public Access Catalog

In January 1990, NAL made the Online Public Access Catalog (OPAC) available to public users

of the Library. Preparation included training of the reference staff, ordering of ergonomic furniture, creation of help manuals and online help aids. The Implementation Team chose a logo for the ISIS system, and the design company created ISIS signs which have been installed in the Library.

Catalog Maintenance

NAL now tape-loads current records into ISIS. The need to maintain up-to-date authority headings and to clean up conflicts is more apparent in an online environment. ISIS software produces a report which allows for the efficient clean-up of the NAL data.

Acquisitions

NAL does processing for the ISIS Acquisitions System offline using microcomputers on a Novell Lan. It then sends ordering data to the HP3000 for access in the online catalog. The acquisitions staff, which was trained in December 1989, is using the system, initially in a pilot project for ordering items for ARS field libraries at the Russell Research Center and the Southern Regional Research Center.

Indexing Subsystem

As part of the contract, VTLS agreed to develop an Indexing Subsystem. The purpose was to integrate indexing as part of ISIS and to move production to the HP3000. This has been an immense undertaking by VTLS and several members of the NAL staff. The Indexing Branch is in the final stages of testing the software. The Library expects completion and installation of the subsystem in 1990.



photo: J. Swab

Reference Librarian Carol Kopolow helps a user of the Public Access Catalog.

One recommendation of the MITRE report was to replace the process which produces the AGRICOLA tapes. SAMANTHA, the software NAL utilized in recent years, is a mature product that operates in a batch, sequential mode. Moving to a more productive and reliable online environment was essential for NAL and a high priority of the contract. VTLS agreed to develop this production program. Specifications have been submitted to VTLS from NAL staff. Completion and installation of this program is expected in 1990.

Ongoing and Future Plans

An online system is an ever changing environment. With the implementation of each module many steps are taken and many issues debated. NAL is accepting the challenge, making the most of the opportunity, by providing a valuable information source for ISIS users.

ISIS provides for collection management and control, reliable information as to what is owned and where it can be located, data analysis reports and an integrated system for streamlined production. It further provides the capability of entering into cooperative networking activities. Telecommunications are in place to provide domestic as well as international access. In development is access to remote databases and CD-ROM products through the ISIS terminals.

Conclusion

In essence, ISIS provides support for those functions that are necessary to NAL's methods of operations and mission objectives. The promise which NAL Director Joseph H. Howard envisioned when he announced the awarding of the contract in October 1986, is now being realized: "By eliminating our current fragmented, multiple computer operations, the new system should result in significant savings in time and money. The Library patron will gain greater ease of access to our collection including more timely delivery of materials and direct electronic access to bibliographic records through our online catalog."



photo: D. Starr
John Espley of VTLS conducted training sessions for NAL staff as new modules of ISIS were implemented.



News Notes

First Multi-Lingual Agricultural Research CD-ROM Released

"Food, Agriculture, and Science," the first release in a series which will eventually constitute a full agricultural library on CD-ROM with 6,000 titles, is now available, the secretariat of the Consultative Group on International Agriculture Research (CGIAR) announced in Washington, DC, in the fall of 1989. The new CD-ROM is accompanied by trilingual aids in English, French, and Spanish on floppy disks.

Documents reproduced in "Food, Agriculture, and Science" are drawn from 20 international agricultural research centers — one document per center — and cover 4,000 pages with 850 illustrations, all of which are on the CD-ROM.

Among the titles included are a farmers' primer on rice growing, field problems of beans in Latin America, potato research, agriculture/aquaculture farming systems, trends and projections of food in the third world, and sorghum breeding.

The new CD-ROM is a prototype which will be tried out internationally. It will be distributed free to interested institutions in developing countries by international agricultural research centers, and will be sold in the US for \$99 from Knowledge Access International (see address below).

Development of the CD-ROM library is sponsored by the CGIAR, an informal association of over 40 countries, international and regional organizations and private foundations established in 1971 to support a system of agricultural research around the world. The World Bank, the United Nations Food and Agriculture Organization (FAO), and the United Nations Development Programme (UNDP) are co-sponsors of the CGIAR. Development of this disk was also part of the National Agricultural Text-Digitizing Project, a consortium of 44 land-grant university libraries and the National Agricultural Library, USDA, Beltsville, MD. NAL staff served as consultants and advisors in the development of the CGIAR CD-ROM.

Commenting on the first release in the series, Mr. W. David Hopper, chairman of the CGIAR, who is the World Bank's senior Vice President for policy, planning and research, said the "CD-ROM is likely to break the information barrier between developed and developing countries."

The proprietary software technology used in the production of "Food, Agriculture, and Science" — KAware DISK PUBLISHER and KAware2 RETRIEVAL SYSTEM — is from Knowledge Access International, a leading producer

of CD-ROM, WORM, and floppy disk "desktop databases" for business, research, and the professions.

Dr. William Paisley, Executive Vice President of Knowledge Access, says that "many agricultural disks will soon be in use around the world. Due to retrieval software innovations—such as, the KAware DISK Publisher which lowers development costs—CD-ROM is proving to be an affordable medium for disseminating agricultural research information."

For more information, contact CGIAR c/o World Bank, 1818 H Street, N.W., Room N5063, Washington, DC 20433, USA. Telephone: (202) 334-8031. Or Knowledge Access International, 2685 Marine Way, Suite 1305, Mountain View, California 94043, USA. Telephone: (800) 2KA-ware or (415) 969-0606.

— Knowledge Access International

NAL Results of the 1990 National Shelflist Count

The National Shelflist Count is a project of the American Library Association (ALA) Chief Collection Development Officers of Large Research Libraries Discussion Group. The research libraries which participate in the project gather data on the size of their collections within specified call number ranges and contribute the data to compilers, presently at the University of Illinois. The compiled results enable librarians to make comparative analyses of collection size and strength in subject areas. The 1990 National Shelflist Count has been conducted at the National Agricultural Library and results have been sent to the compilers. The last count was performed in 1985, when the results of counts at 48 institutions, including NAL and Library of Congress, were compiled and distributed. This year many more institutions are contributing, including the National Library of Medicine (NLM), and the count will include ranges in NLM call numbers for any library which uses them. The results should be available before the ALA convention this summer. The results which show NAL's collection growth are available now and are selectively reported here for areas of interest.

Background.

The last Shelflist Count reported the number of titles for ranges of call numbers in the LC Classification system and calculated what percentage of a library's entire holdings could be found in that range. It then related the percentage of holdings of each library to the percentage of holdings of other similar libraries and to those of the Library of Congress. For example, NAL held 20,873 titles in the SB class (plant culture) in 1985; LC held 39,709, and 18 other libraries in our Group (i.e., with a similar number of titles to NAL) held a total of 43,958. It was calculated that 10.267% of NAL's total collection was in the SB class, 0.571% of LC's collection was in SB, and 0.447% of the Group's collection was in SB. Even though LC had more titles in SB, its percentage of total collection was minute, and the results reported NAL's "relative holdings" to LC as 999 + %, rela-

tive holdings to Group as 999 + % and relative holding to all libraries as 999 + %. Because NAL's collection is so specialized, the pattern of percentages is repeated throughout the results of the 1985 count: soaring in the sciences, swooping in the humanities. Therefore, the count is relatively useless for analysis. Even the column reporting the number of titles is not totally informative, because in 1985 two thirds of NAL's collection was in NAL classification numbers and was excluded from the survey. Consequently, the information of greatest value to NAL is that of the Library's own collection growth for the 5-year period in various subject areas. There may be some slight variation in calculation in the final official report, but these figures from a spreadsheet program are close enough to be shared.

Results.

The part of NAL's collection in LC classification showed a 32.9% growth from 1985 to 1990. The entire collection, including the part in NAL classification, grew by 10.9% in 5 years. Many areas made gratifyingly significant gains, especially some subjects which are supported by the selection efforts of information centers. In other cases, the growth has been below average, sometimes alarmingly so, and the Shelflist Count results will help us direct our selection work in the coming years. See **Tables in the Box on the next page.**

The processing backlog was estimated at 16,500 items in 1985, and at 21,000 in 1990. Because information center subjects have assumed high processing priorities in the past, some of the materials in low growth areas may have been passed over in favor of others and put into the arrearage. However, animal culture and veterinary medicine are also areas of high priority, so the 25.3% growth in SF would not be explained by processing priorities.

Of the new titles added since 1985:

- 32.5% have been in the S class — Agriculture,
- 21% in H — Social Sciences (Economics, Rural Sociology, etc.),
- 18.5% in Q — Science (Botany, Chemistry, Physics Zoology, etc.),
- 9.5% in T — Technology,
- 7% in G — Geography, Maps, etc.,
- 3.5% in R — Medicine,
- 3% in K — Law, and
- 2% in Z — Bibliography, Library Science.

Comments or inquiries may be directed to Caroline Early at (301) 344-3806.

— Caroline Early

Frank Appears on Cable Television Program

Robyn Frank, Chief of NAL's Information Centers Branch, was the host and star of a live two-hour television program on NAL which was broadcast to satellite television viewers in 29 states March 31.

The program was available to subscribers to the TI-IN Network, Inc., of San Antonio, Texas, a television corporation providing interactive instructional (Cont'd, p. 8, col. 1)

Significant gains.

RANGE	% GROWTH	SUBJECT
G3160-9980	1018.9%	Maps. (Many backlogged maps were cataloged)
RJ	303.8%	Pediatrics
K-KC	281.6%	Law, General
RC435-576	246.2%	Psychiatry (including counseling for eating disorders)
HV	207.9%	Social welfare
HG	179.2%	Finance
BF1-1000	169.3%	Psychology (including children and youth)
TT	138.9%	Handicrafts
E1-139	137.9%	American history, general (because of a series on nutrition of Native Americans)
RG	127.6%	Gynecology and obstetrics
QA1-99	92.5%	Math (including computer science)
HQ	85.5%	Family, marriage, women
SH	83.1%	Aquaculture
RC633-935	82.8%	Diseases of organs (dietary aspects of diabetes, heart disease and osteoporosis)
LC	79.2%	Special aspects of education (including adult and rural education)
LB	73.4%	Theory and practice of education (including nutrition education and youth development)
KF	72.8%	Law-US
GB	70.2%	Physical geography (including hydrology)
RC578-632	61.2%	Specialties of internal medicine (including food allergy, nutritional diseases, immunological diseases)
RA421-790	55.5%	Public health and preventive medicine
HD9000-9999	51.2%	Special industries and trade (including agricultural)
QD71-145	50%	Analytical chemistry
TX	45.8%	Home economics
RA1190-1270	45.6%	Toxicology
TE	45.4%	Highway engineering (because of rural and logging roads, roadway soil stabilization and vegetative cover)
SB	45.3%	Plant culture
TP	44.9%	Chemical technology (including biotechnology)
RM	44.8%	Pharmacology
RC254-298	41.1%	Oncology
QL750-991	40.7%	Animal behavior, anatomy, morphology
RC952-1299	40.6%	Internal medicine, special situations (including occupational health, geriatrics, tropical medicine)

Areas of slower growth.

QC350-496	11.9%	Optics, light
TD	15.2%	Environmental technology
QH201-278	15.6%	Microscopy
S1-760	17.9%	Agriculture, general
QD241-449	18.3%	Organic chemistry
TJ	18.6%	Mechanical engineering (including a section specifically for agriculture)
HC	19.1%	Economic history and conditions
QL362-739	20.0%	Invertebrate and vertebrate zoology
HT	20.1%	Communities, classes, races (including rural sociology)
T	21.0%	Technology, general (including technology transfer)
TC	22.5%	Hydraulic engineering
QC801-999	22.6%	Geophysics (including meteorology)
QK1-474	23.4%	Botany, general
HD101-1395	24.9%	Land use
S900-972	25.3%	Conservation of natural resources
SF	25.3%	Animal culture and veterinary medicine
QK475-489	26.2%	Botany, plants

programming. Subscribers to TI-IN programming include educational facilities in rural areas of the United States.

During the program, Frank gave viewers an overview of NAL and the services it provides to patrons. She also talked about NAL's 15 Information Centers and responded to telephone questions from viewers.

The program included two pre-recorded demonstrations by NAL Reference Librarian Karl Schneider: first, NAL's AGRICOLA database, and second, NAL's computer bulletin board called ALF, Agricultural Library Forum.

— Brian Norris



News from Other Libraries

NCREMP Extension Database & Services

by Sorrel Brown, Coordinator
North Central Region Educational Materials Project
Iowa State University

Background

The North Central Region Educational Materials Project (NCREMP) is a consortium of thirteen land-grant universities which organized in 1976 to support regional distribution, sharing, and review of Extension educational resources. In today's educational environment many issues are of common concern in the North Central States, so state and regional boundaries often no longer apply. Educational materials produced in one state are worthwhile to specialists in other states who are developing resources on the same subjects. Circulating such materials keeps Extension staff aware of resources being developed elsewhere which may prove useful for their needs and those of their clientele.

Database

The NCREMP database contains nearly 12,000 references that cover agriculture, home economics, 4-H, and community resource development. The database includes entries for Extension publications, videotapes, and

audiovisual materials, with about 150 new entries quarterly; it does not include software. The database includes each state's Extension resources, as well as several hundreds of resources that have passed regional review approval.

Services

NCREMP provides database searching and document delivery services and also publishes quarterly listings of new resources added to the database. The search service is free to persons associated with any of the North Central land-grant universities. There is a fee of \$4 per search request for persons outside these land-grant universities or requestors outside the region. Each quarter NCREMP prints a list of all new resources added to the database during the previous quarter. A subscription to this list is available for an annual fee of \$5. Since the database is so large and updated daily, a complete printed catalog is not available.

Requests

Users may send search requests to NCREMP by mail [Educational Materials Project, North Central Region, B-10 Curtiss Hall, Iowa State University, Ames, IA 50011], BITNET [J2.NCR@ISUMVS], FAX [(515) 294-9477], or telephone [(515) 294-8802].

Users can reduce turnaround time by sending requests to the Project's BITNET address. NCREMP checks the mail each afternoon and E-mails back a search request form asking for pertinent information. When the requestor has returned the completed form and the requestor's account

has been validated, NCREMP processes the request and E-mails the results or mails a hard copy, generally within one week. The nice thing about using BITNET is that there are no long-distance telephone charges!

Responses

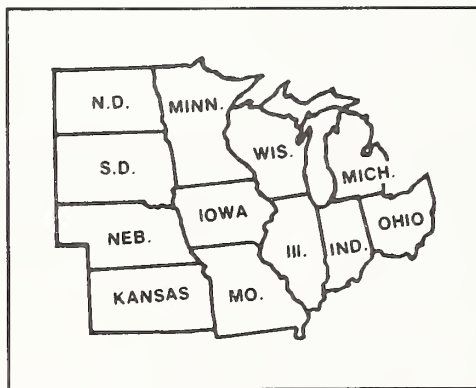
Search results include all references singled out using appropriate keywords. References include title, author, and other bibliographic and format data, and a brief abstract. A cover letter provides information about ordering copies from the publishing institution. If a search request is for

a relatively unknown topic for which few references have been produced (e.g., bioethics), the Project provides alternative sources that can be contacted for more information.

For additional information please contact the Project office:

*Educational Materials Project
North Central Region
B-10 Curtiss Hall
Iowa State University
Ames, IA 50011*

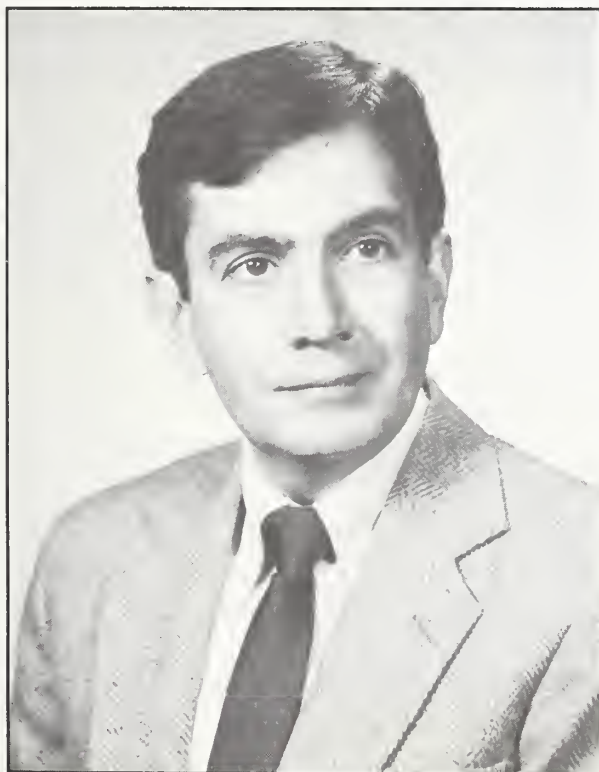
Or call (515) 294-8802.



The NCREMP logo.

NCREMP State Contacts are:

Illinois, University of—Anita Povich
(217) 244-2833
Indiana, Purdue University—Laura
Hoelscher (317) 494-8405
Iowa State University—Elaine Edwards
(515) 294-5168
Kansas State University—Myrna Daly
(913) 532-5804
Michigan State University—Ken Fettig
(517) 355-0261
Minnesota, University of—Dave
McAllister (612) 625-4261
Missouri, University of—Don Esslinger
(314) 882-7037
Missouri, Lincoln University—Bill Helvey
(314) 681-5557
Nebraska, University of—Terry
Meisenbach (402) 472-3007
North Dakota State University—Gary
Moran (701) 237-7865
Ohio State University—Bill Warren
(614) 292-2011
South Dakota State University—Mary
Brashier (605) 688-4648
Wisconsin, University of—Jerry McGee
(608) 262-1797



Michael Kinch



New Publications of Note

Journal of Agricultural and Food Information: Call for Papers

Haworth Press—the publisher of *The Serials Librarian*, *The Reference Librarian* and other journals—is introducing a new journal for agricultural and food information professionals. The quarterly *Journal of Agricultural & Food Information* will provide a forum for the communication of research, innovative practice, and informed opinion on any aspect of agricultural and food information. The Editor, Michael Kinch (Oregon State University Library), is now accepting manuscripts for the journal, the first issue of which will appear in 1991.

The journal will be refereed and will have a strong interdisciplinary emphasis in order to stimulate research and encourage discussion among librarians (academic, private sector, federal, state, etc.), Extension professionals, agricultural communicators, educators, database specialists, government administrators, and consultants.

All facets of agricultural and food information will be covered by this new journal. These include production of information, economics and funding information sources, new technology and media, cooperative and networking efforts, information or technology transfer, government information, databases, policy and international issues in agricultural and food information, ethics, descriptive articles, education and training, collection development, information management, access, communication, assessment, acquisition of library materials, and information storage, retrieval, and delivery, etc.

Agriculture and food are defined in the broadest sense, covering not only the traditional subjects of plant and animal husbandry, food and nutrition science and technology, but also aquaculture and fisheries, marine science involving food products, veterinary medicine, agricultural engineering, agricultural economics, applied entomology, natural products, and rural sociology.

Features of the journal will include reviews of new book and audiovisual media, news of new information resources, and guides to selected current literature.

The editor, Michael Kinch, is Professor and Head of Reference Services at Oregon State University Library, where he was the Agriculture and Forestry Librarian for 15 years and taught agriculture information in the College of Agriculture. He also edited the "Current Literature" section in the *Journal of Forestry*. He has published widely in such journals as *BioScience*, *Library Trends*, *Serials Review*, *Biology Education* (India), and *Reference Services Review*.

The Board of Consulting Editors will consist of a broad spectrum of the agricultural and food information community. Those who have already agreed to serve are, Keith Russell, Chief of Public Services Division, National Agricultural Library; Margaret Morton, Director, Library Services, Agriculture Canada; Rita Fisher, Washington State University Library; Charles Gilreath, North Carolina State University; Burton Swanson, Director INTERPAKS, University of Illinois, Urbana-Champaign; and John R. Metcalfe, Director of Information Services, CAB International.

For further information or "Instructions for Authors," contact:

*Michael Kinch, Editor
Journal of Agricultural & Food Information
Oregon State University Library
Corvallis, OR 97331-4501*

Telephone, (503) 737-3260

Fax, (503) 737-3453

BITNET: KINCHM@ORSTATE.

The charter issue is scheduled for publication Spring 1991. A free sample copy of Volume I, #1 will be reserved for anyone writing on professional letterhead to:

*Sample Copy Department
The Haworth Press, Inc.
10 Alice Street
Binghamton, NY 13904*

or:

*Sample Copy Department
The Haworth Press, Inc.
3 Henrietta Street
Covent Garden
London WC23 8LU England*



**ASSOCIATES OF THE
NATIONAL AGRICULTURAL LIBRARY**

Associates Executive Board Tours NAL Following White House Breakfast

Several members of the Executive Board of the Associates of the National Agricultural Library, Inc., were given a tour of the Library March 7 following a special breakfast at the White House.

The Board members included: Mark Andrews, Chairman of the Associates and former Senator from North Dakota; Simon B. Rich Jr., Executive Vice President of the Louis Dreyfus Corporation; David H. Swanson, President and Chief Executive Officer of Central Soya; William Ladish, President, Ladish Malting Company; Daryl Natz, Vice President, Continental Grain Company; William Lehr, Vice President, Hershey Foods; Robert Wait, Vice President, Kraft General Foods; and Pat Endel, Executive Director of the Associates. The White House breakfast had been arranged by Mark Andrews.

NAL Director Joseph Howard led the Board members on the Library tour which included demonstrations of the AGRICOLA database by Karl Schneider, Reference Branch, and of the Library's optical disk system containing USDA photographs by Ron Young, Special Collections Branch.

The Associates of the National Agricultural Library, Inc., is a non-profit group committed to ensuring NAL's leadership in managing vital agricultural information resources to meet the challenges of today and tomorrow.

— Brian Norris

Congressional Staff Visit NAL

On February 14 and 15 the National Agricultural Library provided briefings, demonstrations, and tours to key Congressional staff visitors. This was one of a series of Associates-sponsored events devoted to promoting the Library. Associates Chairman Mark Andrews said, "An important part of the Associates' work is to ensure that the Congressional offices most in-



photo: J. Swab

Paul Hosman (standing) demonstrates the NAL AGRICOLA database to Congressional staff. This is one of the first demonstrations to use NAL's new projection and sound system in the conference room. The projector, above right, shows the computer image on the screen, left. A variety of audiovisual media can be used with the system.



photo: J. Swab

Ron Young of NAL Special Collections staff demonstrates the NAL Forest Service Photographs and the USDA OPA Photographs laser video disks to Congressional staff.

involved in developing our Nation's agricultural policy are familiar with all of the services NAL is capable of providing. Educating Congressional staff gives greater visibility to the Library and provides a better understanding of NAL's sophisticated resources."

Highlights of the two half-day sessions included:

- A briefing by NAL Director Joseph H. Howard on the mission of NAL and its outreach efforts to inform users and potential users about NAL's information resources and services;
- Demonstrations by Paul Hosman, Coordinator of NAL's New Technology and Software

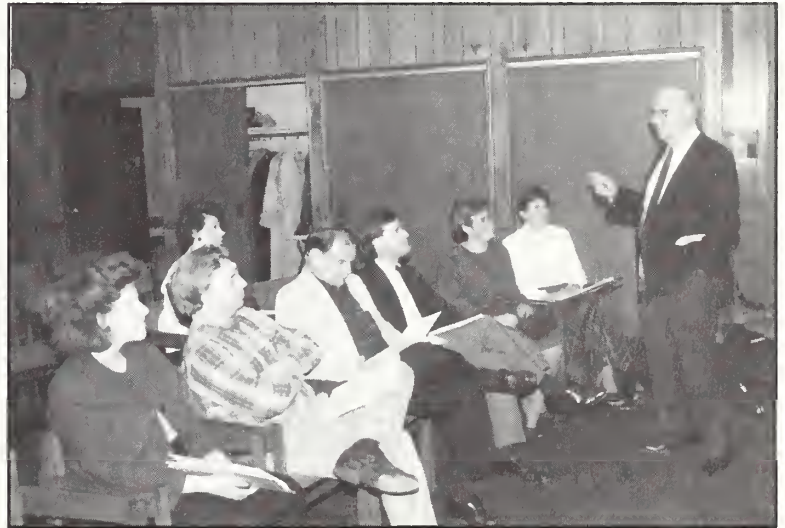


photo: J. Swab

Joseph H. Howard, NAL Director, addresses Congressional staff on the second day of the Associates-sponsored tour.



photo: J. Swab

Robyn Frank, Head, Information Centers Branch, presents NAL's fifteen specialized Information Centers to the first of two Congressional staff groups to visit the Library. The information sessions were followed by discussions during luncheons provided by the Associates of NAL.

vice Photographs and the USDA OPA Photographs laser video disks by Ron Young, of NAL's Special Collections staff;

- A briefing on the mission and activities of the Associates of NAL, Inc., by Patricia J. Endel, Executive Director.

In commenting on the success of the tours, Ms. Endel said that they were "valuable for the Congressional staff, many of whom had never worked with NAL." One of the visitors, Larry Calvert, Legislative Aide to Congressman Bill Alexander (D-AR), said, "I have worked on agricultural issues for five years, but I didn't know that such a great facility existed. It will now become a valuable resource for my Congressman and his constituents."

— J. Swab; quotes: Associates *Harvest*

National Agricultural Library Takes "Proactive" Approach

by Brian Norris
Public Affairs Officer, NAL
(301) 344-3778

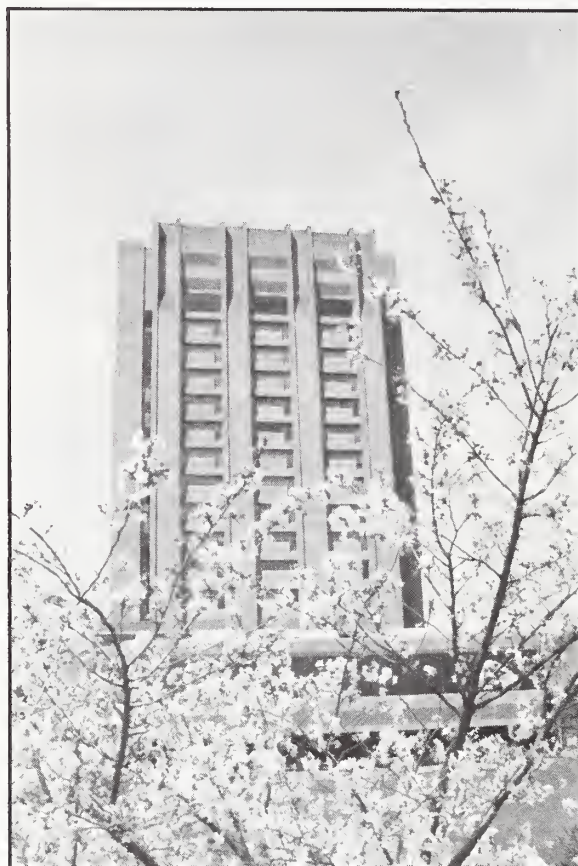
April 22-28 is National Library Week, a time in which libraries seek to focus public attention on the services they provide to communities. Perhaps no library better serves the "world agricultural community" than the U.S. Department of Agriculture's National Agricultural Library located in Beltsville, Maryland. With world concern growing over agricultural issues ranging from food safety to genetic engineering to agricultural trade, NAL has taken center stage as a source of information vital to dealing with these issues.

"Proactive" is a term heard frequently when speaking with many of NAL's 225 employees. Proactive is the way the Library's Director, Joseph H. Howard, insists that NAL operate. "We try not to wait for people to come to us requesting information on critical agricultural issues before we do research," Howard said. "We work to stay abreast of issues facing world agriculture. Once we identify an issue, we begin identifying and amassing literature about it. Then we are ready when the world comes looking."

The growing concern among consumers over the nutritional value of food is a case in point. While it has only been within the last two or three years that most people have started thinking seriously about food and nutrition, there has been a food and nutrition information center at NAL for over ten years. The center can provide citations for a mass of information on the relationship between a person's diet and disease, nutrient composition of food items, food safety, nutrition education and related subjects.

"NAL's Food and Nutrition Information Center responds to hundreds of requests for information a month," said Robyn Frank, who oversees most of NAL's information centers. "These requests come from scientists, farmers, universities, environmental groups, industry and even from USDA's own researchers. We handle a fair number of requests from school children, too. This is true for all of our information centers."

Frank explained that food and nutrition is one of 15 information centers set up by NAL within the last dozen



The National Agricultural Library with cherry blossoms,
March 1990.

photo: J. Swab

years. Other centers cover agricultural trade and marketing, alternative farming systems, animal welfare, aquaculture, biotechnology, critical agricultural materials, families, fiber and textiles, food irradiation, horticulture, rural living, technology transfer, water quality, and youth development.

"Our people who work for the information centers are probably among the most well-versed individuals on their subjects in the nation," Frank said. "They take pride in staying abreast of the changing issues affecting their subjects. They are a valuable resource to the agricultural community."

Howard, Frank, and the rest of the NAL staff take the proactive approach in making information available also. "We try to use every means possible to make information easy to find; from printed bibliographies to optical disks to computer bulletin boards," Howard said. Computers are the stars in NAL's information retrieval systems.

The primary way to locate information at NAL is through the computerized AGRICOLA system.

AGRICOLA is a bibliographic database consisting of citations for nearly 2 million articles, monographs, theses, patents, software, audiovisual materials and technical reports in agriculture and related sciences. AGRICOLA allows an NAL patron to search quickly and locate information on a specific subject simply by using a few "key words."

"The concept of AGRICOLA is similar to the old card catalog which used to be found in most libraries, only AGRICOLA is much quicker and much easier to use," Howard said. NAL routinely offers training in the use of its computerized systems, including AGRICOLA.

In 1984, NAL began listing in the AGRICOLA database materials not in the NAL collection but cataloged or indexed by a cooperating institution. Some of these materials did not originate in the United States. For such materials, the lending library is identified in the AGRICOLA listing. The scope of NAL indexing is impressive. "The NAL staff and cooperating libraries and organizations routinely scan many thousands of journals for input into AGRICOLA," Howard said.

So aggressive is NAL in taking advantage of the various technologies for making information available that the

Library has gained a reputation as a leader in the development of information storage and retrieval technology. At a recent meeting of the 44,000-member American Library Association in Chicago, NAL information management experts were deluged with requests to appear on panels addressing new technologies.

"NAL is blessed with talented, bright people who enjoy and are committed to what they are doing," Howard said. "They are recognized internationally as experts in their fields. Consequently, they are in demand throughout the world to give seminars on their work." As an example, Howard recounted that in one recent month, NAL people were in the Soviet Union, Italy, and India providing advice to those countries' governments on managing agricultural information through new technology.

Howard is particularly proud of NAL's involvement with the new technology of text digitizing. NAL and 45 libraries from land-grant universities throughout the United States are cooperating in testing an electronic method for capturing the full-text of publications and their illustrations in digital format on optical disks. Once on disks, a researcher can use a computer quickly and easily to search the publication for specific information. Text, diagrams, charts, and photographs from the publication can be printed using a computer printer.

"The purpose of the study is to determine whether it is possible to provide in-depth access to agricultural literature while at the same time preserving it from deterioration caused by frequent handling and use," Howard said. "The study will help us determine whether it is economical to digitize text and also what the limitations of text digitizing are. It is a very promising, yet still a developing, technology."

NAL has also broken new ground in the area of "expert systems." These are microcomputer systems which contain the advisory work done by experts in various areas of agriculture. The systems guide the users to references—books, articles, laws—which answer questions about a specific field of agriculture.

The Regional Information System for African Aquaculture (called REGIS) is an example of an expert system developed by NAL. "The aim of REGIS is to provide better access to information on aquaculture in Africa, with an eye toward helping developing African nations set up aquaculture industries both for profit and to help feed the African people," Howard said.

NAL developed REGIS in cooperation with the Food and Agriculture Organization (FAO) of the United Nations. It contains the entire text of a regional survey of aquaculture in Africa compiled by the Aquaculture Development and Coordination Programme of FAO and the United Nations Development Programme. Specific information on the various aspects of aquaculture can be accessed on REGIS through a table of contents, individual country names, the name of a species of fish, or other terms.

A map of Africa contained in REGIS

also allows access to aquaculture information from a specific country by using a computer "mouse" to select the country on the map. REGIS also has 25 pages of names of aquaculture specialists who are active in Africa and a "sub-expert system" on starting small and commercial aquaculture ventures. The system is available on 5-1/4 or 3-1/2 inch computer disks from NTIS.

"REGIS offers users a stimulating combination of approaches for learning about aquaculture. It also aids farmers in finding answers to problems which may be encountered once an aquaculture operation has been set up," Howard said. He was enthusiastic about an innovative characteristic of REGIS called "hypermedia."

"Hypermedia allows for quick and painless learning. Certain terms and key phrases in REGIS are highlighted. When a user sees these phrases, he or she knows that a more in-depth explanation is available only one computer screen away, simply by pushing a key," he said.

Other NAL computer systems designed to assist NAL users include: Integrated System for Information Services (ISIS), a computer-based system that allows on-line access to NAL collections while integrating all of the Library's automated functions; Agricultural Library Forum (ALF), an electronic bulletin board used to communicate information about NAL's products and services and for exchanging information with other libraries; and photographs on laser videodisks for word-searchable access to USDA photographs, illustrations, and videotapes.

NAL is located 20 minutes from the heart of Washington, DC, at the intersection of U.S. Route 1 and the Capitol Beltway in the community of Beltsville. The NAL building is easily recognizable: fourteen stories of glass and brick and modern-design situated on acres of rolling grassed fields.

"It is a pleasant and beautiful place," Howard said. "But it is also a place with a vital function; to maintain the most comprehensive collection of agricultural information available in the world, for the good of U.S. agriculture and ultimately the nation."



photo: J. Swab

The National Agricultural Library with crabapple blossoms, March 1990.

NAL Awards – 1989

Last month *ALIN* published photographs of many of the persons receiving awards in 1989. The following is a list of the persons recognized at the annual awards ceremony on December 6, with abbreviated citations. Some persons were not present that day, some had received their awards earlier in the year; some had been present at the photo sessions later that day; some photos were not of printable quality.

Length of Service Awards

– **30 Years:** Willie R. Jackson, Eudella E. Jones, W. H. Longenecker, Wallace E. Reeves, Ruth W. Wertman;

– **20 Years:** Marianne Davies, Alan Fusonie, Patricia A. Krug, Arlene R. Sperber, Barbara G. Thompson, Carolyn W. Thurman;

– **10 Years:** Janet M. Berkson, Helen Kondilas, Josephine S. McDowell,

Wayne K. Olson, Ann B. Palmes, Vincent E. Parker, Elvena D. Proctor, Daniel O. Starr, Annette Y. Swann, Claudia Weston.

Performance Awards

Office of the Director

Quality Step Increase: Mary Silva for continuous outstanding performance in all duties and special projects.

Cash Awards – Individual: Pamela Q.J. Andre for successful adoption of advanced information technologies to library operations; Louise T. Bruce for special dedication to NAL as building manager; J. Nancy Chase for exceptional performance in NAL accounting; Diana I. Lemon for exceptional administrative support in personnel liaison and procedural guidance; Keith W. Russell for exceptional leadership in improvement of public services at NAL; Sarah E. Thomas for improved and enhanced NAL database through internal improvements and cooperative participation.

Certificates of Appreciation – Individual: Laura Nauta for coordinating Hispanic employee programs; Tanya Tanner for coordinating Black employee programs; Janet Wright for coordinating Women's programs; Donald Yeldell for past service as Special Programs Coordinator.

Technical Services Division, Office of the Chief

Group Cash Awards: David Goldberg for contributions to production of *International Union List of Agricultural Serials* and Elizabeth Whiting for services to NAL, CAB International, and creation of the machine-readable file for the *World List of Agricultural Serials*; Donald Blamberg, Carol Dowling, Shirley Edwards, & Claudia Weston for work on the *Conference on Application of Scanning Methodologies in Libraries* and editing the published proceedings; Diana Claburn, Cheryl Moore, Ellen Nollman, Donald North, Shirley Paull, Gloria Pugh, & Shirley Souder for work on the *World List of Agricultural Serials*.

Cash Awards – Individual: Ruth Wertman for the *Pro*Tem Study* which resulted in reduction of throughput time in materials processing.

Certificates of Appreciation – Group: Donna Collins,

Kathleen Dougherty, Gary Johnson, Angela Lee, Sherwood Moulton, Laura Nauta, Annette Rojas, Arlene Sperber, & Barbara Thompson for work on the *World List of Agricultural Serials*; Phyllis Bickerton, Louise Bruce, Leola Decker, Susan Dennis, Peter DePuydt, Michael Esman, Christopher Fourney, David Goldberg, Elizabeth Goldberg, William Hauser, Jeffrey Maier, Gary McCone, Joanne Metcalf, Ann Palmes, Connie Rinaldo, Carole Shore, Mary Silva, Lori Starr, Maria Stransky, Joseph Swab, Hazel Thomas, Patti Wheeler, Judith Winesdorfer, & Ronald Young for contributions to the success of the *Conference on Application of Scanning Methodologies in Libraries*.

Indexing Branch

Group Cash Awards: Carol Dowling, Marie Funkhouser, Dorothy Heise & Maria Stransky for work on *List of Journals Indexed in AGRICOLA 1989*.

Cash Awards – Individual: Donald Blamberg for serving as Acting Branch Head; Martha Hood for leadership in transition to 2d ed of *CAB Thesaurus*; Joanne Metcalf for outstanding secretarial support for Indexing; Lori Starr for contributions to thesauri maintenance and development; Patricia A. Brewer for work on *List of Journals Indexed in AGRICOLA 1989* and the American Floral Endowment Project; Audrey Brown, Nancy Gmurek, Vickie A. Pessagno, & Karen Reed for contributions to the AGRICOLA database and superior performance in Indexing; Tanya B. Tanner for creating a foreign language working tool for Indexing in support of AGRICOLA.

Cataloging Branch

Quality Step Increase: Donna Collins for sustained outstanding performance.

Cash Awards – Individual: Diana Claburn for superior performance and reorganization of Branch work space; Kathleen A. Dougherty for contributions to ISIS implementation and to cataloging efficiency and productivity; Michael D. Esman for productivity increases from managing contracts in cataloging; Charlotte M. Harre for contributions to implementation of new Branch processes; Shirley Souder for leadership and implementation of rearranged Branch space, equipment, and services; Donald North for outstanding performance in the Cataloging Master File Clean-up Project; Annette Rojas for sustained superior performance; Helen White for outstanding and efficient processing of audiovisual materials; Rebecca Younger for sustained superior performance.

Acquisitions & Serials Branch

Cash Awards – Individual: Michael Chisley for reducing a processing backlog of exchange requests; Ruth Finnblade for developing and implementing the gift and exchange request tracking system; Jeffrey Maier for resourceful development of software applications; Ann Palmes for exemplary performance as Branch secretary; Patricia Wheeler for improvement of NAL's collection and distribution of USDA publications; Lena Garner for exceptional work in implementation of the ISIS serials control system; Connie Maas for substantial contributions to work of the Serials Unit; Peter Paul DeAnna for outstanding performance in ordering and creating temporary entries for acquisitions.

Cash Awards—Group: Connie Ames, Drcama Black, Jane McLeod, Vincent Parker, Nancy Raff, & Donald Ycl-dell for exceptional efforts in implementing the new serials control system; Norma Jenson, Linda Showers, & Judith Winesdorfer for outstanding efficiency in order receipt and payment; Stan Kosecki, Veronica Perkins, & Allen Rice for outstanding performance in order placement during staff shortage.

Certificates of Appreciation—Individual: Norma Jenson & Allen Rice for work while on detail as receiving technicians.

Public Services Division, Office of the Chief

Group Cash Awards: John B. Forbes & Maria G. Pisa for effectiveness in administering Reference Branch during staff shortage; Leola Decker & Patricia Krug for leadership and coordinating PSD ISIS implementation.

Information Centers Branch

Cash Awards—Individual: Sandra Facinoli for planning and developing the Youth Development IC; Deborah Hanfman for development of *REGIS (Regional Information System for African Aquaculture)*; Kathleen C. Hayes for contributions to the "Just Say No" Campaign and compiling USDA's *Technology Transfer Report*; Jim Krebs-Smith for outstanding performance in managing Food & Nutrition IC; Jean Larson for planning, developing, and managing Animal Welfare IC; Eileen M. McVey for planning, compiling, and coordinating national bibliography on *Practical Aquaculture*; Rebecca Thompson for sustained, outstanding performance to NAL and the Branch; John D. H. Kane for services in Rural IC; Marion L. Carroll for contributions to successful operation of Rural IC; Suzanne Nanis for planning and developments in Biotechnology IC.

Certificates of Appreciation—Group: Christina Kirkbride, Yolanda Nokuri, & Seyed Hosseini for contributions in evaluating the Rural IC Project.

Certificates of Appreciation—Individual: Susan Agel for projecting a cheerful, positive image of NAL to the public by serving as "the voice" of the Branch's automated telephone answering system; Kathryn Bielenberg for outstanding productivity and excellent service in Alternative Farming Systems IC; Linda M. Braun for volunteer service to Aquaculture IC; Diane Brigham for exemplary services to Rural IC during staff shortages; Michelle Foster for outstanding service to the Branch and its clientele; Jan Ostby for reference services in Food & Nutrition IC during staff shortages; Mona F. Smith for service to Aquaculture IC; Eva Wilcox for excellent service in Youth Development IC; Ann Townsend Young for service to the Aquaculture IC; Billie H. Frazier for volunteer services to the Family IC and significant contributions to the field of gerontology; Florence Cox for volunteer service to Aquaculture IC and Alternative Farming Systems IC.

Lending Branch

Cash Awards—Individual: Susan Agel for preparation of a contract merger to improve document delivery services; Veronica Lefebvre for strengthening the Regional Document Delivery System and NAL/ARS cooperation; Ter-

rance Price for developing and managing new technology.

Certificates of Appreciation—Group: Cathryn Derr, Juanita Mobley, Charles Newsom & Rita Spencer for support and extra efforts at the Circulation Desk; Juanita Mobley & Charles Newsom for assuming added responsibilities in the Search Unit.

Certificates of Appreciation—Individual: Cathryn Derr for services in the Interlibrary Borrowing Unit; Barbara McAllister for contributions to various functions of Lending; Josephine McDowell for quality service and contributions to efficiency of Interlibrary Borrowing Unit; Thang Nguyen for timely and quality document delivery support in interlibrary borrowing from NLM.

Reference Branch

Quality Step Increase: Karl Schneider for outstanding performance in Reference, development of publications, operation of the electronic bulletin board and other projects, etc.

Cash Awards—Individual: John B. Forbes for applications of computer software resulting in major contributions to reference efficiency and strengthening access to collections; Kathleen Hessler for outstanding clerical support to Reference; Jerome M. Rafats for sustained superior performance in Reference, Critical Agricultural Materials IC, chairing the Online Users Group, development of publications, etc.; Rebecca Thompson for enhancement of NAL's electronic bulletin board system.

Certificate of Appreciation—Individual: Maria Stransky for outstanding service in support of Reference Desk activities and NAL public service programs.

Special Services Branch

Quality Step Increase: Susan C. Whitmore for outstanding leadership, improvement, and management of the D.C. Reference Center.

Cash Awards—Group: William G. Hauser & Ronald B. Young for conceiving, proposing, planning, applying, training and transferring laser disk technology to existing USDA photo library organizations and thereby changing and improving USDA photo library operations.

Cash Awards—Individual: Kathryn S. Baker for improvements to the external exhibit program; Charles Bebee for improving services through the Coden Project; Leola Decker for showcasing NAL's projects and activities; Paul F. Hosman for producing training materials for new technology demonstrations and documentation for *AGRICOLearn*; Sharon D. Middleton for high level performance as Branch secretary; Jesse E. Brown for outstanding technical support at the D.C. Reference Center.

Information Systems Division, Office of the Chief

Cash Awards—Group: June E. Sullivan & Julie Stubs for contributions to a more efficient automated environment at NAL.

Database Administration Branch

Quality Step Increase: Judith A. Zidar for leadership toward the success of the National Agricultural Text Digitizing Project.

Cash Awards—Individual: Pamela R. Mason for leading

successful completion of the OIRM review of NAL; William W. Taliaferro for identifying document characteristics influencing optical character recognition at NAL.

Certificates of Appreciation – Individual: Constance A. Rinaldo for work on successful completion of the first two optical disks of NAL.

Library Automation Branch

Cash Awards – Individual: C. Rose Broome for planning and creating the World List of Agricultural Serials database; Margo Kincaid for superior performance in production of monthly AGRICOLA database, *Quick Bibliographies*, etc.; Susan Leatherman, & Lawrence Wingfield for outstanding contributions to microcomputer support activities, etc.

Certificates of Appreciation – Group: Charles Schoppet & Lolita Reese for aiding implementation of ISIS.

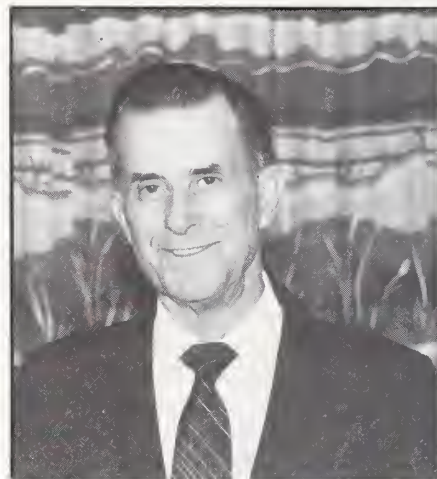


photo: D. Starr

Database Administration Branch, Performance Awards: William Taliaferro.



photo: D. Starr

Technical Services Division, Office of the Chief, Performance Awards: (L-R) Lori Starr, Jeffrey Maier, Ann Palmes, Hazel Thomas, Maria Stransky, Joseph Swab, & Joanne Metcalf. There were many others in this group, some of whom were in other photographs.

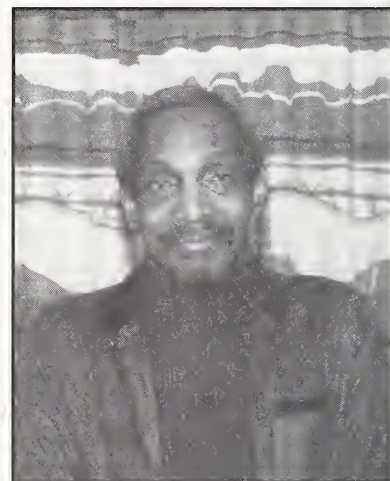


photo: D. Starr

Lending Branch, Performance Awards: Charles Newsom.



photo: J. Swab

Information Centers Branch, Performance Awards: Deborah Hanfman.



photo: J. Swab

Information Centers Branch, Performance Awards: (L-R) Linda Braun, Ann Young, Florence Cox, & Eileen McVey



photo: D. Starr

Public Services Division, Office of the Chief, Performance Awards: Patricia Krug and Leola Decker.



photo: D. Starr

Special Services Branch, Performance Awards: Charles Bebee.



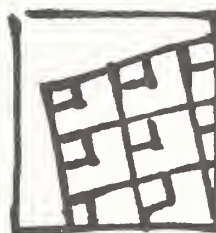
photo: D. Starr

Library Automation Branch, Performance Awards: Lolita Reese and Charles Schoppet.



photo: D. Starr

Cataloging Branch, Performance Awards: Kathleen Dougherty & Michael Esman.



Agriculture Datebook

April 17: International Business Council. Washington, DC. Contact: (202) 447-2593.

April 18: Commodity Distribution Advisory Committee Meeting. Washington, DC; Capitol Hill Quality Inn. Contact: (202) 447-7711.

April 18-20: 1890 Land Grant Institutions Centennial Celebration. Washington, DC. Contact: (202) 447-5620.

April 20: American Society of Plant Physiologists. Washington, DC. Contact: (202) 447-5923.

April 20: ARS Southern Regional Research Center 50-Year Celebration. Contact: (202) 447-3656.

April 22-23: National Association of Agricultural Journalists. Washington, DC. Contact: (202) 447-4623.

April 24-27: Economic Research Service Planning Conference. Easton, MD. Contact: (202) 786-3300.

April 25: American Meat Institute Food Editors Conference. New York, NY. Contact: (202) 447-7025.

April 26: Meeting of State Rural Information Center Coordinators. Beltsville, MD; National Agricultural Library. Contact: (202) 447-4581.

April 27-29: Annual Health and Food Writers Conference. Washington, DC; L'Enfant Plaza Hotel. Contact: Gordon Zwirkowski, (708) 655-8866.

(See Agriculture Datebook, page 22)



New Bibliographies

Bibliographies and Literature of Agriculture

This is an updated listing of the U. S. Department of Agriculture's series *Bibliographies and Literature of Agriculture (BLA)*. BLA numbers 1 through 65 and 67 through 71 were listed in the February 1989 *ALIN*, Vol. 15, No. 2. Updated information appears below for BLA numbers 66 & 72. The listings for BLA-73 through BLA-93 are new. Copies of the complete list may be requested from the *ALIN* office at the address given on the last page of this issue.

Future additions to the series will be listed as published. Not all items are distributed from the National Agricultural Library. However, copies are available for use at NAL, or for borrowing subject to NAL's lending policies.

Items marked (NTIS) are available from:

National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22161.

Items marked (GPO) are available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20401

Items marked (NAL) are available on interlibrary loan:

Lending Branch-Interlibrary Loan
National Agricultural Library, Room 300
10301 Baltimore Boulevard
Beltsville, MD 20705

Or call (301) 344-4110 for additional information on borrowing materials from NAL. The NAL call number for all items is: aZ5076.A1U54

BLA-66: Marketing of Floricultural Products in the United States. An Annotated Bibliography. Susan Whitmore. National Agricultural Library, 1989. 41 p. (NTIS) \$13.95 paper; \$6.95 microfiche. (PB89-224224/AS).

BLA-72: Tracing the Evolution of Organic/Sustainable Agriculture. Jane Potter Gates. National Agricultural Library, 1988. 20 p. (NTIS) \$13.95 paper; \$6.95 microfiche. (PB89-139869/AS).

BLA-73: U.S. Agriculture and Foreign Workers: An Annotated Bibliography. Robert D. Emerson and Anita L. Battiste. Economic Research Service, 1988. 112 p. (NTIS) \$6.95 microfiche. (PB8-08-AAA).

BLA-74: Entrepreneurship Theories and their Use in Rural Development: An Annotated Bibliography. Celeste

Long and Martha Frederick. Economic Research Service, Agriculture and Rural Economy Division, April 1989. 100 p. (Source not yet available.)

BLA-75: Practical Aquaculture Literature II. A Bibliography. Eileen M. McVey, Deborah T. Hanfman, Mona F. Smith, and Ann Townsend Young. National Agricultural Library and In Cooperation with Joint Subcommittee on Aquaculture Information Task Force, June 1989. 175 p. (NTIS) \$21.95 paper; \$6.95 microfiche. (PB89-228951/AS).

BLA-76: World List of Poultry Serials. David H. Goldberg and Stanislaw J. Kosecki. National Agricultural Library, 1989. 182 p. (NTIS) \$21.95 paper; \$6.95 microfiche. (PB89-237754).

BLA-77: The Protection of Soybeans, December 1984-February 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 274 p. (NTIS) \$28.95 paper; \$6.95 microfiche. (PB90-104456/AS).

BLA-78: The Protection of Wheat, January 1985-February 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 228 p. (NTIS) \$28.95 paper; \$6.95 microfiche. (PB90-104977/AS).

BLA-79: The Protection of Cotton, December 1984-February 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 223 p. (NTIS) \$31.00 paper. \$8.00 microfiche. (PB90-161431/AS).

BLA-80: Chinese Publications in the Collections of the National Agricultural Library. A Bibliography. Volume I and Volume II. Chen Qiubo and Charles N. Bebee. National Agricultural Library, 1989. Volume I, 339 p., and Volume II, 75 p. (NTIS) \$45.00 paper; \$15.00 microfiche. (PB90-106543/AS).

BLA-81: The Protection of Small Fruits and Berries, 1980-April 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 149 p. (NTIS) \$21.95 paper; \$6.95 microfiche. (PB90-104993/AS).

BLA-82: The Protection of Grapes and Cherries, 1979-April 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 159 p. (NTIS) \$21.95 paper; \$6.95 microfiche. (PB90-105016/AS).

BLA-83: The Protection of Rice, 1980-April 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 146 p. (NTIS) \$21.95 paper; \$6.95 microfiche. (PB90-104449/AS).

BLA-84: Farm Animal Welfare, January 1979-April

1989. Charles N. Bebee and Janice Swanson. National Agricultural Library, 1989. 301 p. (NTIS) \$39.00 paper; \$11.00 microfiche. (PB90-120197/AS).

BLA-85: Vertebrate Pest Control, January 1979-April 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 143 p. (NTIS) \$21.95 paper; \$6.95 microfiche. (PB90-105008/AS).

BLA-86: The Protection of Wildlife, January 1979-April 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 199 p. (NTIS) \$28.95 paper; \$6.95 microfiche. (PB90-105024/AS).

BLA-87: The Protection of Ornamental Plants, 1979-April 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 211 p. (NTIS) \$28.95 paper; \$6.95 microfiche. (PB90-105032/AS).

BLA-88: The Protection of Farm Animals, 1979-April 1989. Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Charles N. Bebee. National Agricultural Library, 1989. 456 p. (NTIS) \$45.00 paper; \$8.00 microfiche. (PB90-110214/AS).

BLA-89: Promoting Nutrition Through Education: A Resource Guide to the Nutrition Education and Training Program (NET) Supplement 1. Food and Nutrition Information Center, National Agricultural Library. National Agricultural Library, 1989. 97 p. (NTIS) \$17.00 paper; \$8.00 microfiche. (PB90-124314/AS)

BLA-90: The Potentials of Aquaculture: An Overview and Bibliography. Deborah T. Hanfman, Steven Tibbitt, and Carol Watts. National Agricultural Library, 1989. 73 p. (NTIS) \$17.00 paper; \$8.00 microfiche. (PB90-161811/AS)

BLA-91: Laboratory Animal Welfare, 1979-April 1989. Charles N. Bebee. National Agricultural Library, 1989. 102 p. (NTIS) \$23.00 paper; \$8.00 microfiche. (PB90-120114/AS). (NTIS)

BLA-92: The Papers of Charles Valentine Riley; A Register of His Papers in the National Agricultural Library. Judith J. Ho and Willie Yuille. National Agricultural Library, 1990. (To be available May 1990).

BLA-93: Aquaculture in the Northeast Pacific: A Bibliography. Deborah T. Hanfman, Eileen M. McVey, Steven J. Tibbitt, Marilyn Guin, and Carol Watts. National Agricultural Library, 1990. 76p.

BLA's Available from NAL

NAL may have copies of BLA's the Library has produced available for free distribution while supplies last. Only one copy of each title will be supplied. To request a copy, circle the desired title(s) on a copy of the list and send a self

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The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the Library and its Information Centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography*, *Special Reference Brief*, or other bibliographic work, circle the desired title(s) below and send your request with a self-addressed label to:

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Q.B. — 90-27. Agroforestry Systems, June 1986-November 1989. 388 citations; languages: English only. Prepared by Jayne MacLean. February 1990. Updates 88-70.

Q.B. — 90-28. Air Pollution Effects on Crops and Forests, January 1984-December 1989. 361 citations; languages: English only. Prepared by Jane Potter Gates. February 1990. Updates 86-74.

Q.B. — 90-29. Amaranths for Food or Feed, January 1979-December 1989. 210 citations; languages: English only. Prepared by Jane Potter Gates. February 1990. Updates 88-07.

Q.B. — 90-30. Aquaculture: Feeds, Feeding and Nutrition, January 1979-January 1990. 177 citations; languages: none excluded. Prepared by Eileen M. McVey. February 1990. Updates 89-36.

Q.B. — 90-31. Food Safety and Sanitation Audiovisuals, January 1979-December 1989. 77 citations; languages: none excluded. Prepared by Natalie Updegrove. March 1990. Updates 89-42.

Q.B. — 90-32. Ginseng, January 1979-December 1990. 311 citations; languages: none excluded. Prepared by Jerry Rafats. March 1990. Updates 88-10.

Q.B.—90-33. Potential New Crop: Kenaf, Commercial Fiber and Pulp Source, January 1979-December 1989. 214 citations; languages: none excluded. Prepared by Jerry Rafats. March 1990. Updates 88-78.

Q.B.—90-34. Shiitake: Cultivated Mushroom, January 1970-December 1989. 257 citations; languages: none excluded. Prepared by Jerry Rafats. March 1990. Updates 88-53.

Q.B.—90-35. Oyster Mushroom, January 1970-December 1989. 223 citations; languages: none excluded. Prepared by Jerry Rafats. March 1990. Updates 88-31.

Q.B.—90-36. Rabbit Production for Food, Fur, and Fun, January 1979-December 1989. 273 citations; languages: English only. Prepared by Jerry Rafats. March 1990. Updates 87-51.

Special Reference Briefs

S.R.B.—90-06. Animal Care and Use Committees. Prepared by Karen Clingerman. March 1990. Updates 89-06.

AWIC Series

AWIC—2. Animal Welfare Legislation: Bills and Public Laws 1989. Prepared by Karen Clingerman, Sean Gleason, and Janice Swanson. January 1990.

Miscellaneous

Learning to Search AGRICOLA on Silver Platter CD-ROM. Prepared by Sheldon Cheney. April 1990.



New Serials Received at NAL

Advances in Inorganic Chemistry. Orlando: Academic Press. Irregular. Vol. 31- [c1987]-
QD146.A38

The Alternatives Report. N. Grafton, MA: Center for Animals and Public Policy, Tufts School of Veterinary Medicine. Bimonthly. Vol. 1, no. 1 (May/June 1989)-
QL55.A572

Annual Report / Blue Diamond. Sacramento, CA: Blue Diamond Growers. Annual. 1987-88-
HD9259.A47C23

Annual Report / Missouri Botanical Garden. Saint Louis,

MO: The Garden. Annual. 1987-
QK73.U52M5

Annual Report / USDA Soils Conservation Service, Brooksville Plant Materials Center. Brooksville, FL: The Center. Annual. 1987-
aS627.P55B7

Aquaculture Situation and Outlook Report / United States Department of Agriculture, Economic Research Service. Washington, DC: The Service. Semiannual. AQUA 1 (Oct. 1988)-
aHD9454.A92

Biennial Report of the Animal and Dairy Science Research Institute. Irene, Republic of South Africa: Dept. of Agriculture. Biennial. 1981-82-
SF55.S6A5

Biotransformations: a Survey of the Biotransformations of Drugs and Chemicals in Animals. London: Royal Society of Chemistry. Annual. Vol. 1- [c1988]-
RM301.B56

Current Diet Review. [Diamond Bar, CA]: Current Diet Review. Bimonthly. Vol. 1, no. 1 (Mar./Apr. 1986)-
RM222.2.C8

DGS, Deutsche Geflügelwirtschaft und Schweineproduktion. Stuttgart: E. Ulmer. Jahrg. 24. (Jan. 1, 1974)-
SF481.D48

Ferment. London: Institute of Brewing. Bimonthly. Feb. 1988-
TP156.F4F47

Focus on Phytochemical Pesticides. Boca Raton, FL: CRC Press. Annual. Vol. 1 (1988)-
SB292.A2F63.

ICIMOD Occasional Paper. Katmandu, Nepal: International Centre for Integrated Mountain Development. Irregular. No. 1- [c1985]-
HT395.H55I3

Indian Journal of Natural Products. [Sagar, India]: Indian Society of Pharmacognosy. Semiannual. Vol. 1, nos. 1 & 2- [c1985]-
RS164.I53

Invertebrate Reproduction & Development. Rehovot, Israel: Balaban; Distributed by International Science Services. Six issues yearly. Vol. 15, no. 1 (Feb. 1989)-
QP251.I628

Journal of the Pennsylvania Academy of Science. [Harrisburg]: The Academy. Three issues per year. Vol. 62, no. 1 (Sept. 1988)-
Q11.J682

Pig Veterinary Journal. [Malmesbury, U.K.]: Pig Veterinary

nary Society. Irregular. Vol. 22- [c1989]-
SF971.P5

Quarterly Journal of International Agriculture = Zeitschrift für ausländische Landwirtschaft. Frankfurt am Main: DLG-Verlag. Four no. a year. Vol. 19, no. 1 (Jan.-Mar. 1980)-S3.Q37

Revista Geográfica Venezolana: Revista del Instituto de Geografía y Conservación de Recursos Naturales de la Facultad de Ciencias Forestales. Mérida, Venezuela: Universidad de los Andes. Vol. 22-23 (1981-1982)-GB169.R48



Publications Exchange

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The National Agricultural Library identifies gaps in the national collection through collection maintenance activities and patron requests. We appreciate your donation of the following publications needed to complete collections. If you have questions, call Ruth Finnblade, Gift and Exchange Program, (301) 344-1207.

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Biological Trace Element Research. LABS. Vol. 8, No. 2; Vols. 14, & 18.

FEBS Letters. Vol. 183, No. 2; Vol. 184, No. 1; Vol. 218, No. 2; Vol. 220, No. 1; and Vol. 231, No. 2.

Journal of Drug Education. Vol. 18, 1988.

Las Polski. 1973, No. 3; 1975, No. 7; 1978, No. 24; 1979, No. 21; 1982, Nos. 10-12; 1984, Nos. 8-10; and 1986, Nos. 1,4-5.

Norsk Hagetidend. Vol. 89, No. 1, 1973; Vol. 91, No. 6, 1975; Vol. 92, No. 9, 1976; Vol. 93, Nos. 11-12, 1977; Vol. 94, No. 11, 1978; Vol. 95, No. 11, 1979; Vol. 100, Nos. 11-12, 1984; Vol. 101, No. 5, 1985; and Vol. 102, Nos. 10-11, 1986.

Oeconomica Polona. Vol. 5, No. 4, 1978; Vol. 8, Nos. 2 & 4, 1981; Vol. 9, 1982; Vol. 10, 1983; Vol. 11, Nos. 1-3, 1984; Vol. 12, No. 1, 1985; and Vol. 13, No. 2, 1986.

Organic Geochemistry. Vol. 4, No. 1, 1984; Vol. 8, No. 1,

1986; and Vol. 9, No. 1, 1986.

Polymer. Vol. 14, No. 3, 1973; Vol. 20, No. 3, 1979; and Vol. 26, Nos. 2, 3-7, 1985.

Surplus Publications

The National Agricultural Library will make available the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material. Listed titles may be requested up to six months following announcement.

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American Economic Review. 1967-70.

American Journal of Agriculture Economics. Vol. 50-71, 1968-89.

Annals of Botany. Vol. 53-54, 1984.

Appalacian. Vol. 21-22, 1989.

Arkansas Farm Research. Vol. 38, 1989.

Australian Forestry. Vol. 50-51, 1987-88.

Commonwealth Forest Review. Vol. 59-64, 1980-85.

Crop Science. Vol. 27, 1988.

Farm Journal. 1989.

Foreign Agriculture. 1976-88.

Forest Science. Vol. 30, 1984.

Journal of Range Management. Vol. 41-42, 1988-89.

Journal of Regional Science. 1942-84.

Journal Agriculture Library Catalog. 1973-80.

Plant and Soil. Vol. 97-112, 1987-88.

Poultry Science. Vol. 67, 1988.

April 30-May 1: ECOP Southern Regional Workshop. Dallas, TX. Contact: (202) 786-3300.

April 30-May 1: Fourth Annual Conference on Commercialization of Biotechnology. Lansing, MI; Kellogg Center, Michigan State University. Theme: "Bridging the Gap Between Universities and Industry." Contact: Michigan Biotechnology Institute, P.O. Box 27609, Lansing, MI 48909-9850.

May 1: National Association of Food Distribution Programs on Indian Reservations Conference. Nevada. Contact: (202) 447-7711.

May 1: ARS National Administrative Officers Meeting. Orlando, FL. Contact: (202) 447-3656.

May 1-2: Cooperative Forestry Research Advisory Committee. Washington, DC. Contact: (202) 447-2016.

May 3-4: USDA/1890 Task Force Meeting. Huntsville, AL. Contact: (202) 447-4423.

May 7-13: Public Service Recognition Week. Contact: (202) 535-4324.

May 9: American Farm Bureau Federation Southern Region Commodity Staff Conference. Hilton Head, SC. Contact: (202) 447-7907.

May 12-16: Binational Agricultural Research and Development Fund Meeting. Tel Aviv, Israel. Contact: (202) 447-3656.

May 15-17: National Agricultural Research and Extension Users Advisory Board Meeting. Peoria, IL. Contact: (202) 447-3684.

May 16-17: Bi-Regional Education and Training Conference. Asheville, NC. Contact: (202) 447-7711.

May 18: National Conference of State Legislatures. Washington, DC. Contact: (202) 447-3935.

May 20-23: 37th International Technical Communication Conference (ITCC). Santa Clara, CA; Santa Clara Convention Center. Contact: Davlyn Jones, (408) 298-2469.

May 21-23: International Symposium on Application and Management. New Delhi, India. Contact: (202) 447-2634.

May 22: New Cereal Scientists Workshop. Aberdeen, ID. Contact: (202) 447-3656.

May 24: ACE D.C. Region/USDA Office of Public Affairs Annual Spring Workshop. Chevy Chase, MD; National 4-H Center. Contact: Eunice Bowman, (703) 756-3195, or Denver Browning, (202) 447-2058.

May 25: MSU/DOE Plant Research Laboratory Twenty-fifth Anniversary Symposium. East Lansing, Michigan; Michigan State University. Contact: (202) 447-5923.

May 29-31: Tetrapartite Meeting. Quebec, Canada. Contact: (202) 447-3656.

May 29-June 1: International Conference on Issues in Food Safety & Toxicology. East Lansing, MI. Contact: (202) 447-7025.

May 29-June 1: International Food Policy Research Institute Meeting. Montreaux, Switzerland. Contact: (202) 447-4164.

May 30-31: 4th Government Workplace Educational Conference and Display. Washington, DC; Convention Center. Contact: Diane Escher, (404) 393-1688.

May 30-June 2: Extension Technology Conference: Ap-

plied Technology. Blacksburg, VA; Virginia Tech/Virginia Cooperative Extension. Contact: 1990 Technology Conference, Extension Information Office, 200 Media Services Bldg., Virginia Tech, Blacksburg, VA 24061.

June 1: Meeting on "Effective Animal Care and Use Committees." Los Angeles, CA; University of Southern California. Sponsored by Scientists Center for Animal Welfare and Division of Health Affairs, USC. Contact: SCAW Conferences, 4805 St. Elmo Avenue, Bethesda, MD 20814. (301) 654-6390.

June 2-4: World Pork Expo. Des Moines, IA; Iowa State Fairgrounds. Contact: NPPC, (202) 789-5606.

June 3-5: National Ag in the Classroom Conference. Washington, DC. Contact: Shirley Traxler, (202) 447-5727.

June 3-6: 1st East-West Feed Industry Conference. Budapest, Hungary; Hotel Atrium-Hyatt & Ethnological Museum. Theme: "EEC-COMECOM Feed Business and Its Future." Contact: A.P. Namur, International Feed Industry Federation, Rue de la Loi, 223, Box 10, B-1040, Brussels, Belgium.

June 4: Cotton Growers Warehouse Association. Las Cruces, NM. Contact: (202) 447-7907.

June 5: Ag Issues Symposium. Fresno, CA. Contact: (202) 447-5923.

June 6-8: Rice Millers' Association Convention. Orlando, FL. Contact: RMA, (703) 920-1281.

June 9-14: Special Libraries Association. Pittsburgh, PA.

June 10-13: International Plant Genetic Resources Conservation Short Course. Davis, CA; University of California. Contact: University Extension Center, University of California, Davis, CA 95616. (916) 757-8686.

June 11-14: Fourth Annual Seminar on Analytical Biotechnology. Arlington, VA; Gateway Marriott. Contact: Janet Cunningham, (301) 898-3772.

June 12: ARS Hall of Fame Awards. Washington, DC. Contact: (202) 447-3656.

June 12: National Agricultural Biotechnology Council Meeting. Ithaca, NY. Contact: (202) 447-7025.

June 13: USDA Honor Awards Ceremony. Washington, DC. Contact: (202) 447-4623.

June 15: Institute of Food Technologists Short Course. Anaheim, CA. Contact: (202) 447-7025.

June 17-20: Grocery Manufacturers of America Convention. White Sulphur Springs, WV. Contact: GMA, (202) 337-9400.

June 17-20: Institute of Food Technologists Meeting. Anaheim, CA. Contact: (312) 782-8424.

June 17-20: International Apple Institute Convention. Nashville, TN. Contact: IAI, (703) 442-8850.

June 17-20: National Food Processors Association Symposium. Anaheim, CA. Theme: "The Role of the Media in Shaping Public Health Policy." Contact: (202) 447-7025.

June 18: USA/USSR Joint Conference on Environmental Hydrology and Hydrogeology. Leningrad, Russia. Contact: (202) 447-8885.

June 19-21: Corn Utilization Conference III. St. Louis, MO; Airport Marriott Hotel. Contact: National Corn Growers Association, (314) 275-9915.

June 20-21: 1990 Economic Research and Planning Conference. Sacramento, CA. Contact: (202) 653-6976.

June 21: European Toxicology Forum. Budapest, Hungary. Contact: (202) 447-7025.

June 23-27: Food Safety Workshop/American Home Economics Association Annual Meeting. San Antonio, TX. Contact: Margy Wodburn, Oregon State University, (503) 754-3551.

June 23-28: American Library Association. Chicago, IL.

June 24-27: American Society of Agricultural Engineers International Summer Meeting. Columbus, OH. Contact: Judy Brown, ASAE, 2950 Niles Road, St. Joseph, MI 49085-9659.

June 25-26: USDA/FDA Journalists' Conference. Washington, DC; National Press Club. Contact: (202) 447-7907.

June 25-27: American Home Economics Association Meeting. San Antonio, TX. Contact: (202) 862-8300.

June 25-29: American Seed Trade Association Convention. Orlando, FL. Contact: ASTA, 1030 15th Street, N.W., Suite 964, Washington, DC 20005-1593. (202) 223-4080.

June 26-29: History of 1890 Land-Grant Colleges & Universities Centennial Symposium. Tallahassee, FL; Florida A&M University. Contact: Dr. S. Pancholy, Florida A&M University, (904) 599-3000.

June 27-30: Annual Meeting of the American Association of Botanical Gardens and Arboreta. Seattle, WA. Contact: Ms. Sue Brogdon, AABGA Program Committee, Chicago Botanic Garden, P.O. Box 400, Glencoe, IL 60022. FAX: (312) 835-4484.

July (?): International Congress for Succulent Plant Study. Zurich, Switzerland. Contact: U. Eggli, Staedtische Sukkulentensammlung, Mythenquai 88, CH 8002 Zurich, Switzerland.

July 6: ARS Northern Regional Research Center 50-Year Celebration. Peoria, IL. Contact: (202) 447-3656.

July 6-13: Rapid Methods and Automation in Microbiology 10th Symposium/Workshop. Manhattan, KS; Kansas State University. Contact: (913) 532-5566 or FAX (913) 532-5637.

July 8-11: Northeast Agricultural Experiment Station Directors Summer Meeting. Mystic, CT. Contact: (202) 447-3555.

July 10-12: National Broiler Council Marketing Conference. Grand Traverse Village, MI. Contact: NBC, (202) 296-2622.

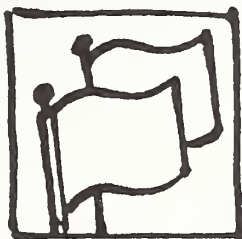
July 12: Ag Tech '90. Blacksburg, VA. Contact: (202) 447-5923.

July 13: American Association of Nurserymen. Nashville, TN. Contact: (202) 447-5923.

July 14-17: International Agricultural Communicators in Education (ACE) Meeting. Minneapolis-St. Paul, Minnesota; St. Paul Radisson Hotel. Theme: "Thriving in the '90s." Contact: Dave McAllister, Publicity Chair, ACE, c/o Educational Development System, 405 Coffey Hall, 1420 Eckles Avenue, St. Paul, MN 55108.

July 14-17: National Association of Counties Convention. Miami Beach, FL. Contact: NAC, (202) 393-6226.

July 16: American Association of Nurserymen. Nashville, TN. Contact: (202) 447-5923.



Visitors



photos: J. Swab

Among recent visitors to the National Agricultural Library to discuss cooperative projects with the Director, Joseph Howard, and Library Managers and to learn about recent developments were the two groups pictured here. (Above) David R. Bender, Executive Director, and Kathy Hackl, Assistant Executive Director for Professional Growth, Special Libraries Association.

(Below) Catherine C. Dunn, Manager, Office of Governmental Affairs and Programs, and Paul J. Fasana, Director, Research Library, New York Public Library.



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NAL Annual Awards – 1989



(Above Left) Technical Services Division, Office of the Chief, Performance Awards: (L-R) Shirley Souder, Cheryl Moore, Shirley Paull, Diana Claburn, & Donald North.

(Above) Technical Services Division, Office of the Chief, Performance Awards: Elizabeth Whiting & David Goldberg.

(Left) Technical Services Division, Office of the Chief, Performance Awards: (L-R) Claudia Weston, Donald Blamberg, & Carol Dowling.

For a complete listing of the awards and additional photographs, see pages 14-17. See also last month's ALIN for the keynote address by Dr. Hess and additional photographs.